Index to Volume 51

Abstracts	Issue	Page
Annual SEG Meeting (1985) Technical papers	2	427
Geophysical Prospecting	1	201
	2	515
	3	874
	4	1027
	7	1520
	8	1695
	9	1868
	10	2022
Gulf Coast 1986 Meeting	6	1315
Midwest 1986 Meeting	5	1160
Patents	1	199
	2	512
	3	876
	4	1029
	5	1169
	6	1330
	7	1521
	8	1697
	9	1865
	10	2024
	11	2168
	12	2263
Permian Basin Geophysical Society Meeting	8	1700
Seismic Field Techniques workshop	3	857
U.S. Navy/SEG joint technical symposium	7	1511

	Issue	Page
Ackermann, H. D., Resolution of ambiguities of seismic refraction traveltime curves	2	223
Acoustic multipole sources in fluid-filled boreholes, A. L. Kurkjian and S. K. Chang	1	148
Acoustic reflections from undulating surfaces (Short Note), N.R. Hill and I. Lerche	11	2160
Acoustic relaxation in sedimentary rocks: Dependence on grain contacts and fluid saturation, W. F. Murphy III, K. W. Winkler, and R. L. Kleinberg	3	757
Acoustic response of manganese nodule deposits, Y. Ma, A. H. Magnuson, V. K. Varadan, and V. V. Varadan	3	689
Allis, R. G., Analysis of exploitation induced gravity changes at Wairakei geothermal field	8	1647
Almoghrabi, H., Layers and bright spots	3	699
Alternate derivation of the three-dimensional Hilbert transform relations from first principles (Short Note), J. B. Nelson	4	1014
Alternative processing techniques and data improvement provided by single-sweep recording, S. W. Belcher, T. L. Pratt, J.K. Costain, and C. Coruh	9	1736
Altitude dependence of terrestrial gamma ray spectra: A simple model, R. C. Bailey	11	2108
Aminzadeh, F., A recursive method for the separation of upgoing and downgoing waves of vertical seismic profiling data	12	2206
Analysis of exploitation induced gravity changes at Wairakei geothermal field, R. G. Allis and T. M. Hunt	8	1647
Analysis of multiple source bipole-quadripole resistivity surveys using the apparent resistivity tensor, H.M. Bibby	4	972
Analysis of the magnetotelluric impedance for three-dimensional conductivity structures, G. A. LaTorraca, T.R. Madden, and J. Korringa	9	1819
Anandababu, L., see Mohan, N. L.	1	114
Anderson, W. O., see Newman, G.A.	8	1608
Anisotropy effects in *P*-wave and *SH*-wave stacking velocities contain information in lithology, D. F. Winterstein	3	661
Announcements	1	216
	2	526
	3	886
	4	1036
	5	1177
	6	1339
	7	1528
	8	1708
	9	1876
	10	2029
	11	2175
	12	2271

Annual Meetings

Abstracts of 1985 papers	2	427
Call for papers for 1986 in Houston	1	216
Call for papers for 1987 in New Orleans	12	2271

	Issue	Page
Apparent axial properties of transversely isotropic media (Short Note), B. S. Byun and S-C. W. Cheng	4	1012
Application of cross-hole seismic measurements in site investigation surveys, D. M. McCann, R. Baria, P. D. Jackson, and A.S.P. Green	4	914
Application of high-order differencing to the scalar wave equation, M. A. Dablain	1	54
Application of seismic refraction methods in		

	Issue	Page
groundwater modeling studies in New England, F. P. Haeni	2	236
Application of the maximum-likelihood method (MLM) for sonic velocity logging, K. Hsu and A. B. Baggeroer	3	780
Application of the pole-dipole resistivity technique to the detection of solution cavities beneath highways, D. L. Smith	3	833
Applications and advantages of the Slingram electromagnetic method for archaeological prospecting, A. Tabbagh	3	576
Approximating edges of source bodies from magnetic or gravity anomalies (Short Note), R. J. Blakely and R. W. Simpson	7	1494
Archaeological applications of resistivity and magnetic methods at Fort Wilkins State Park, Michigan, C. T. Young and D. R. Droege	3	568
Archaeological geophysics in Britain, A. J. Clark	7	1404
Archaeological prospection: An introduction to the Special Issue, J. C. Wynn	3	533
Archaeological site surveying program at the University of Nebraska, J. W. Weymouth	3	538
Arkani-Hamed, J., Magnetic susceptibility anomalies of lithosphere beneath eastern Europe and the Middle East	9	1711
Atchuta Rao, D., see Ram Babu, H. V.	5	1119
Athavale, K. A., see Manning, M. J.	1	172
Attenuation of water-borne coherent noise by application of hyperbolic velocity filtering during the tau-*p* transform, I. Noponen and J. Keeney	1	20
Attenuation measurements on shallow seismic refraction data, P. J. Hatherly	2	250
Automatic estimation of very large residual statics, D. H. Rothman	2	332
Baggeroer, A. B., see Hsu, K.	3	780
Bailey, R. C., The altitude dependence of terrestrial gamma ray spectra: A simple model	11	2108
Baria, R., see McCann, D. M.	4	914
Bartel, D. C., Time-domain solution for horizontal coaxial dipoles on a half-space (Short Note)	9	1850
Beamish, D., Geoelectric structural dimensions from magnetotelluric data: Methods of estimation, old and new	6	1298
Beasley, C. W., Three-dimensional mise-à-la-masse modeling applied to mapping fracture zones	1	98
Bednar, J. B., see Gersztenkorn, A.	2	357
Belcher, S. W., Alternative processing techniques and data improvement provided by single-sweep recording	9	1736
Bell, R. E., Evaluation of the BGM-3 sea gravity meter system onboard *R/V Conrad*	7	1480
Berryhill, J. R., Submarine canyons: Velocity replacement by wave-equation datuming before stack	8	1572
Berryhill, J. R., Deepwater peglegs and multiples: Emulation and suppression	12	2177
Bibby, H. M., Analysis of multiple source bipole-quadripole restivity surveys using the apparent resistivity tensor	4	972
Biot-Gardner theory of extensional waves in porous rods, J. E. White	3	742
Blakely, R. J., Approximating edges of source bodies from magnetic or gravity anomalies (Short Note)	7	1494
Bleistein, N., see Cohen, J. K.	8	1552
Bolander, R. J., see Mitchell, J. F.	1	12
Bone, M. N., see Wolfgram, P. A.	9	1808
Borehole field calibration and measurement of low-concentration manganese by decay gamma rays, J. L. Mikesell, F. W. Senftle, T. A. Lloyd, A. B. Tanner, C. T. Merritt, and E. R. Force	12	2219
Borsaru, M., see Charbucinski, J.	5	1110
Bowin, C., Depth estimates from ratios of gravity, geoid, and gravity gradient anomalies	1	123
Braile, L. W., see Sexton, J. L.	3	640
Brown, A. E., see Specht, R.N.	5	1039
Brown, L. D., see Mayer, J. R.	5	1050
Brysk, H., A slant-stack procedure for point-source data	7	1370
Buselli, G., Transient electromagnetic response of the Teutonic Bore orebody	4	957
Byun, B. S., Apparent axial properties of transversely isotropic media (Short Note)	4	1012
Calendar of events	1	218
	2	528
	3	888
	4	1038
	5	1178
	6	1340
	7	3rd cover
	8	1710
	9	1878
	10	2030
	11	2176
	12	2272
Campbell, M. J., see Sexton, J. L.	3	640
Carlisle, J. H., see Specht, R. N.	5	1039
Carrazzone, J. J., Inversion of *P-SV* seismic data	5	1056
Carswell, A., see Moon, W.	4	940
Chang, S-K., see Kurkjian, A. L.	1	148
Chang, W. F., Reverse-time migration of offset vertical seismic profiling data using the excitation-time imaging condition	1	67
Charbucinski, J., Prompt neutron-gamma logging for coal ash in water-filled boreholes	5	1110
Chave, A. D., see Edwards, R. N.	4	984
Cheng, C. H., see Tubman, K. M.	4	902
Cheng, C. H., see Paillet, F. L.	7	1438
Cheng, S-C. W., see Byun, B. S.	4	1012
Chiu, S. K. L., Three-dimensional determination of structure and velocity by seismic tomography	8	1559
Claerbout, J. F., Simultaneous pre-normal moveout and post-normal moveout deconvolution	7	1341

	Issue	Page
Clark, A. J., Archaeological geophysics in Britain	7	1404
Clayton, R. W., see Vidale, J. E.	12	2247
COCORP: N. California-Nevada area and Southern Appalachian area, Part III (Report), S. Kaufman	11	2162
Coen, S., see Meadows, M.	11	2031
Cohen, J. K., Three-dimensional Born inversion with an arbitrary reference	8	1552
Cole, S. P., see Tubman, K. M.	4	902
Compani-Tabrizi, B., *K-T* scattering formulation of the absorptive acoustic wave equation: Wrap-around and edge effect elimination	12	2185
Comparison of electromagnetic exploration systems, K. G. McCracken, M. L. Oristaglio, and G. W. Hohmann	3	810
Comparison of methods for approximating the vertical gradient of one-dimensional magnetic field data, J. W. Paine	9	1725
Computation of apparent resistivities using an exponential approximation of kernel functions, S. Niwas and M. Israil	8	1594
Contributors to this issue	1	213
	2	522
	3	880
	4	1034
	5	1175
	6	1337
	7	1526
	8	1707
	9	1874
	10	2027
	11	2173
	12	2268
Convergence of iterative gravity inversion (Short Note), H. Granser	5	1156
Coruh, C., see Belcher, S. W.	9	1736
Costain, J. K., see Belcher, S. W.	9	1736
Covey, J. D., see Hron, F.	3	710
Cox, K. B., Maximum entropy analysis of dispersed seismic waveforms	12	2225
Coyner, K. B., see Lo, T. W.	1	164
Craig, M., The Fourier transform of $1/r$ (Short Note)	2	417
Crossley, D. J., see Pilkington, M.	6	1277
Crossley, D. J., see Pilkington, M.	12	2250
Dablain, M. A., The application of high-order differencing to the scalar wave equation	1	54
Dai, T-F., Real data results of Kirchhoff elastic wave migration (Short Note)	4	1006
Daley, P. F., see Hron, F.	3	710
Damiata, B. N., see Lee, T-C.	8	1580
Dansereau, D., see Ackermann, H. D.	2	223
Day, S. M., see Stevens, J. L.	1	137
Deconvolution of noisy seismic data — A method for prestack wavelet extraction, B. J. Newman	1	34
Deepwater peglegs and multiples: Emulation and suppression, J. R. Berryhill and Y. C. Kim	12	2177
Denham, J. I., Map displays from an interactive interpretation (Short Note)	10	1999
Depth estimates from ratios of gravity, geoid, and gravity gradient anomalies, C. Bowin, E. Scheer, and W. Smith	1	123
Design and applications of optimum multichannel linear moveout filters, H. Özdemir	6	1221
Determination of crustal interface topography from potential fields, M. Pilkington and D. J. Crossley	6	1277
Devaney, A. J., A plane-wave decomposition for elastic wave fields applied to the separation of *P*-waves and *S*-waves in vector seismic data (Short Note)	2	419
Dielectric properties of pyrite samples at 1 100 MHz, M. J. Manning and K. A. Athavale	1	172
Diet, J. P., see Ikelle, L. T.	6	1266
Dilliston, C., see Moon, W.	4	940

Discussions

	Issue	Page
On: "Airborne gravity is here!", S. Hammer and M. J. Hall (February 1983) by F. B. Davies with reply by author	7	1502
On: "Application of Gauss's method to magnetic anomalies of dipping dikes," I. J. Won (February 1981) by C. V. Rao with reply by author	8	1691
On: "The electrochemical mechanics of sulfide self-potentials," M. Sato and H. M. Mooney (February 1960) by S. V. Burr with reply by author	1	194
On: "A geophone subarray beam-steering process," D. E. Biswell, L. F. Konty, and A. L. Liaw (November 1984) by Carl H. Savit	9	1861
On: "High-resolution common-depth-point reflection profiling: Field acquisition parameter design," R. W. Knapp and D. W. Steeples (February 1986) by W. Harry Mayne with reply by authors	10	2011
On: "Important design considerations for inboard airborne magnetic gradiometers," C. D. Hardwick (November 1984) by P. Hood with reply by author	1	192
On: "The influence of pore pressure and confining pressure on dynamic elastic properties of Berea sandstone," N. I. Christensen and H. F. Wang (February 1985) by G. H. F. Gardner with reply by authors	4	1016
On: "The inverse problem of resistivity sounding," R. L. Parker (December 1984), by E. Szaraniec with reply by authors	5	1161
On: "The normal vertical gradient of gravity," J. H. Karl (July 1983) by T. R. LaFehr and K. C. Chan	7	1505
On: "Radio-frequency geotomography for remotely probing the interiors of operating mini and commercial sized oil-shale retorts,"		

	Issue	Page
S. F. Somerstein, M. Berg, D. Chang, H. Chung, H. Johnson, B. Richardson, J. Pizzacara, and W. W. Salisbury (August 1984), by R. N. Singh with reply by authors	4	1018
On: "Spontaneous polarization associated with porphyry sulfide mineralizations," C. E. Corry (June 1985) by George W. Leney with reply by author	5	1163
On: "Vertical seismic profiling: Separation of upgoing and down-going acoustic waves in a stratified medium," B. Seeman and L. Horowicz (May 1983), by S. D. Stainsby and M. H. Worthington with reply by author	5	1158
On: "Well logging — A 25-year perspective," D. D. Snyder and D. B. Fleming (December 1985) by H. W. Hardy with reply by authors	7	1504
Display of archaeological magnetic data, I. Scollar, B. Weidner, and K. Segeth	3	623
Doborzynski, Z. B., see Johnson, I. M.	2	396
Downey, W. S., see Tarling, D. H.	3	634
Droege, D. R., see Young, C. T.	3	568
Drummond, B., see McFadden, P.	10	1879
Eckhardt, D., Isomorphic geodetic and electrical networks: An application to the analysis of airborne gravity gradiometer survey data	11	2145
Editorials		
Books, Stanley B. Jones	3	530
FINIS!, Stanley H. Ward	3	531
Discussions	8	1529
Edwards, R. N., A transient electric dipole-dipole method for mapping the conductivity of the sea floor	4	984
Edwards, R. N., see Wolfgram, P. A.	9	1808
Effect of recording aperture in migration of VSP data, on the (Short Note), G. McMechan and L.-Z Hu	10	2007
Effect of structure and anisotropy on resistivity measurements, M. J. S. Matias and G. M. Habberjam	4	964
Effect of the extent of freezing on seismic velocities in unconsolidated permafrost, R. W. Zimmerman and M. S. King	6	1285
Effects of cathodically protected pipelines on aeromagnetic surveys, S. P. Gay, Jr.	8	1671
Effects of geologic noise on cross-borehole electrical surveys, J. X. Zhao, L. Rijo, and S. H. Ward	10	1978
Effects of porosity and clay content on wave velocities in sandstones, D.-H. Han, A. Nur, and D. Morgan	11	2093
Efficient traveltime calculations for Kirchhoff migration (Short Note), S. H. Gray	8	1685
Eggers, D. E., see Spies, B. R.	7	1462
Eisler, P. L., see Charbucinski, J.	5	1110
Electrical conductivity of brine-saturated fractured rock, R. M. Stesky	8	1585
Electromagnetic surveying in current Middle Eastern archaeology: Application and evaluation, B. Frohlich and W. J. Lancaster	7	1414
Empirical study of instability and improvement of absorbing boundary conditions for the elastic wave equation (Short Note), K. D. Mahrer	7	1499
Engineering and Groundwater, Introduction to Special Issue, P. R. Romig	2	221
Ernstson, K., Self-potential variations with time and their relation to hydrogeological and meteorological parameters	10	1967
Errata to:		
"Approximate computation of radial gravity profiles for sources with circular symmetry," M. K. Paul (August 1985)	4	1033
"Biot-consistent elastic moduli of porous rocks: Low-frequency limit," Leon Thomsen (December 1985)	4	1033
CSEG/CGU abstracts section, paper omitted (August 1985)	2	525
"The elastodynamic field of N interacting vibrators (two-dimensional theory)," T. H. Tan (August 1985)	9	1869
"Finite-difference synthetic acoustic logs," R. A. Stephen, F. Cardo-Casas, and C. H. Cheng (October 1985)	3	879
"High-resolution common-depth-point reflection profiling: Field acquisition parameter design, R. W. Knapp and D. W. Steeples (February 1986)	7	1519
"Instructions to Authors" (January 1986)	6	1335
"Tracing of rays through heterogeneous media: An accurate and efficient procedure," R. T. Langan, I. Lerche, and R. T. Cutler (September 1985)	1	210
Errors in depth computation (Short Note), R. F. Stöckli	2	414
Estimates of velocity dispersion between seismic and ultrasonic frequencies, K. W. Winkler	1	183
Euge, K., see Kilty, K. T.	2	266
Evaluation of archaeological site potential on the Gulf of Mexico continental shelf using high-resolution seismic data, M. J. Stright	3	605
Evaluation of the BGM-3 sea gravity meter system onboard *R/V Conrad*, R. E. Bell and A. B. Watts	7	1480
Evidence of recurrent faulting in the New Madrid seismic zone from Mini-Sosie height-resolution reflection data, J. L. Sexton and P. B. Jones	9	1760
Exact inversion of plane-layered isotropic and anisotropic elastic media by the state-space approach, M. Meadows and S. Coen	11	2031

	Issue	Page
Experience with the generalized reciprocal method of seismic refraction interpretation for shallow engineering site investigation, P. J. Hatherly and M. J. Neville	2	255
Experimental determination of elastic anisotropy of Berea sandstone, Chicopee shale, and Chelmsford granite, T-W. Lo, K. B. Coyner, and M. N. Toksöz	1	164
Field comparison of shallow seismic sources, R. D. Miller, S. E. Pullan, J. S. Waldner, and F. P. Haeni	11	2067
Finite-element solution for the transient electromagnetic response of an arbitrary two-dimensional resistivity distribution, Y. Goldman, C. Hubans, S. Nicoletis, and S. Spitz	7	1450
Fitter, J. L., see René, R. M.	6	1235
Fitterman, D. V., Transient electromagnetic sounding for groundwater	4	995
Fluid and solid motion in the neighborhood of a fluid-filled borehole due to the passage of a low-frequency elastic plane wave, M. Schoenberg	6	1191
Fluid pressure response to undrained compression in saturated sedimentary rock, D. H. Green and H. F. Wang	4	948
Force, E. R., see Mikesell, J. L.	12	2219
Forsyth, P. M., see René, R. M.	6	1235
Foster, J. H., see Jones, A. G.	1	902
Fourier method for borehole electromagnetic problems, A. Q. Howard, Jr.	6	1181
Fourier transform of $1/r$ (Short Note), M. Craig	2	417
Freedman, R., Theoretical modeling of induced-polarization logging in a borehole	9	1830
Frohlich, B., Electromagnetic surveying in current Middle Eastern archaeology: Application and evaluation	7	1414
Garg, N. R., Spatial and temporal analysis of electromagnetic survey data.	1	85
Gauthier, O., Two-dimensional nonlinear inversion of seismic waveforms: Numerical results	7	1387
Gay, S. P., Jr., The effects of cathodically protected pipelines on aeromagnetic surveys	8	1671
Geoelectric structural dimensions from magnetotelluric data: Methods of estimation, old and new, D. Beamish	6	1298
Geophone differencing to attenuate horizontally propagating noise, R. W. Knapp	9	1743
Geophysical case history, Prudhoe Bay field, R. N. Specht, A. E. Brown, C. H. Selman, and J. H. Carlisle	5	1039
Geophysical results in archaeology in Hungary, M. Pattantyus-A.	3	561
Geothermics of the Williston Basin in Canada in relation to hydrodynamics and hydrocarbon occurrences, J. A. Majorowicz, F. W. Jones, and A. M. Jessop	3	767
Gersztenkorn, A., Robust iterative inversion for the one-dimensional acoustic wave equation	2	357
Gibson, T. H., Magnetic prospection on prehistoric sites in Western Canada	3	553
Gold and Silver Certificates	5	1179
Goldman, Y., A finite-element solution for the transient electromagnetic response of an arbitrary two-dimensional resistivity distribution	7	1450
Goutsias, J., Maximum-likelihood deconvolution: An optimization theory perspective	6	1206
Granser, H., Convergence of iterative gravity inversion (Short Note)	5	1156
Gravity interpretation using the Mellin transform, N. L. Mohan, L. Anandababu, and S. V. Seshagiri Rao	1	114
Gravity inversion using open, reject, and "shape-of-anomaly" fill criteria, R. M. René	4	988
Gravity model of the basement structure in the Santa Maria basin, California, P. M. Kieniewicz and B. P. Luyendyk	5	1127
Gray, S. H., Efficient traveltime calculations for Kirchhoff migration (Short Note)	8	1685
Green, A. S. P., see McCann, D. M.	4	914
Green, D. H., Fluid pressure response to undrained compression in saturated sedimentary rock	4	948
Greenhalgh, S. A., Shallow seismic reflection investigations of coal in the Sydney Basin	7	1426
Greenhalgh, S. A., see Suprajitno, M.	6	1252
Ground-penetrating radar surveys used in archaeological investigations, C. J. Vaughan	3	595
Gunderson, B. M., Three-dimensional transient electromagnetic responses for a grounded source	11	2117
Habberjam, G. M., see Matias, M. J. S.	4	964
Haeni, F. P., Application of seismic refraction methods in groundwater modeling studies in New England	2	236
Haeni, F. P., see Miller, R. D.	11	2067
Hagin, F. G., see Cohen, J. K.	8	1552
Hammo, N. B., see Tarling, D. H.	3	634
Hamza, V. M., see Ribeiro, F. B.	2	410
Han, D. H., Effects of porosity and clay content on wave velocities in sandstones	11	2093
Hardman, R. H., Theory of induction sonde in dipping beds	3	800
Hatherly, P. J., Attenuation measurements on shallow seismic refraction data	2	250
Hatherly, P. J., Experience with the generalized reciprocal method of seismic refraction interpretation for shallow engineering site investigation	2	255
Hennon, K. P., see Kilty, K. T.	2	266
Henyey, T. L., see Lee, T-C.	8	1580
Herrin, E., see Rafipour, B.	3	679
Hesse, A., New prospects in shallow depth electrical surveying for archaeological and pedological applications	3	585
High resolution common-depth-point reflection		

	Issue	Page
profiling: Field acquisition parameter design, R. W. Knapp and D. W. Steeples	2	276
Errata to:	7	1519
High resolution common-depth-point seismic reflection profiling: Instrumentation, R. W. Knapp and D. W. Steeples	2	283
Hill, J. J., see Young, R. P.	2	302
Hill, N. R., Acoustic reflections from undulating surfaces (Short Note)	11	2160
Hinze, W. J., see Ridgway, J. R.	7	1472
Hinze, W. J., see Sexton, J. L.	3	640
Hohmann, G. W., see Gunderson, B. M.	11	2117
Hohmann, G. W., see McCracken, K. G.	3	810
Hohmann, G. W., see McCracken, K. G.	3	819
Hohmann, G. W., see Newman, G. A.	8	1608
Hole-to-hole resistivity signatures of cylindrical cavities: Dipole-dipole electrode array, J. O. Parra and T. E. Owen	3	788
Howard, A. Q., Jr., A Fourier method for borehole electromagnetic problems	6	1181
Hron, F., Synthetic seismic sections for acoustic, elastic, anisotropic, and vertically inhomogeneous layered media	3	710
Hsu, K., Application of the maximum-likelihood method (MLM) for sonic velocity logging	3	780
Hu, L.-Z., see McMechan, G.	10	2007
Hubans, C., see Goldman, Y.	7	1450
Huestis, S. P., Uniform norm minimization in three dimensions	5	1141
Hunt, T. M., see Allis, R. G.	8	1647
Ikelle, L. T., Linearized inversion of multioffset seismic reflection data in the ω-k domain	6	1266
Indelicato, G. J., Seismic mis-tie adjustment procedure (SMAP) using a minimax-minisum strategy	3	673
Induced-polarization and electromagnetic modeling of a three-dimensional body buried in a two-layered anisotropic earth, Z. Xiong, Y. Luo, S. Wang, and G. Wu	12	2235
Inoue, H., A least-squares smooth fitting for irregularly spaced data: Finite element approach using cubic B-spline basis	11	2051
Instructions to authors, by the Editors of GEOPHYSICS	1	3
Errata to:	6	1335
International Geomagnetic Reference Field Revision 1986 (Report), IAGA Division I, Working Group I, N. W. Peddie, Chairman	4	1020
International scientific advances		
Applied geophysics in Brazil, Marco Polo P. da Boa Hora	5	1171
Applied geophysics in Hungary, A. Adám	2	518
Applied geophysics in Thailand, Robert J. Whiteley	4	1031
Applied geophysics in The Netherlands, Colin V. Reeves	9	1870
Geophysical measurements in nuclear field waste management programs in Argentina, R. F. Stöckli	8	1703
Geophysics and sinking cities, Robert J. Whiteley	11	2172
Geophysics in India, J. G. Negi	1	205
Geophysics in Nigeria, Deborah E. Ayakaiye	12	2266
Geothermal research and activities in Italy, Domenico Patella	1	208
German Deep Reflection Project DEKORP, R. K. Bortfeld	2	517
Recent applications of geophysical methods to aquifer evaluation in Mexico, Roman Alvarez	3	877
State of Geophysics in Australia, P. J. Elliott	6	1331
Inversion of aeromagnetic data for multilayered crustal models (Short Note), M. Pilkington and D. J. Crossley	12	2250
Inversion of magnetotelluric data using localized conductivity constraints, K. P. Whittall	8	1603
Inversion of magnetotelluric data using a practical inverse scattering formulation, K. P. Whittall and D. W. Oldenburg	2	383
Inversion of *P-SV* seismic data, J. J. Carrazzone	5	1056
Investigation of the potential for geothermal energy recovery in the Calgary area in southern Alberta, Canada, using petroleum exploration data, F. W. Jones and H. L. Lam	8	1661
Isezaki, N., A new shipboard three-component magnetometer	10	1992
Isomorphic geodetic and electrical networks: An application to the analysis of airborne gravity gradiometer survey data, D. Eckhardt	11	2145
Israil, M., see Niwas, S.	8	1594
Jackson, P. D., see McCann, D. M.	4	914
Jalinoos, F., Wave propagation from an explosive source	3	746
Jessop, A. M., see Majorowicz, J. A.	3	767
Johnson, I. M., A novel ground electromagnetic system	2	396
Jolivet, A., see Hesse, A.	3	585
Jones, A. G., An objective real-time data-adaptive technique for efficient model resolution improvement in magnetotelluric studies	1	90
Jones, F. W., see Lam, H. L.	8	1661
Jones, F. W., see Majorowicz, J. A.	3	767
Jones, P. B., see Sexton, J. O.	9	1760
Jones, T. D., Pore fluids and frequency-dependent wave propagation in rocks	10	1939
Justice, J. H., Transition zone reflections and permafrost analysis	5	1075
Justice, J. H., Traveltime inversion for the flat-layer model	10	1904

	Issue	Page
Kalra, A. K., Velocity analysis for feathered marine data (Short Note)	1	190
Kanasewich, E. R., see Chiu, S. K. L.	8	1559
Kaufman, S., COCORP: N. California-Nevada area and Southern Appalachian area, Part III (Report)	11	2162
Kayiran, T., A new formulation of dip and depth to a dipping reflector beneath $V = V_0(1 + KZ)$	2	353
Keeney, J., see Noponen, I.	1	20
Keho, T. H., see Weglein, A. B.	5	1069
Keller, G. V., see Garg, N. R.	1	85
Kiniewicz, P. M., A gravity model of the basement structure in the Santa Maria basin, California	5	1127
Kilty, K. T., Seismic refraction at Horse Mesa Dam: An application of the generalized reciprocal method	2	266
Kim, K. Y., see René, R. M.	6	1235
Kim, Y. C., see Berryhill, J. R.	12	2177
King, D. W., see Greenhalgh, S. A.	7	1426
King, M. S., see Zimmerman, R. W.	6	1285
Kleinberg, R. L., see Murphy, W. F. III	3	757
Knapp, R. W., Geophone differencing to attenuate horizonally propagating noise	9	1743
Knapp, R. W., High resolution common-depth-point seismic reflection profiling: Instrumentation	2	276
Knapp, R. W., High resolution common-depth-point reflection profiling: Field acquisition parameter design	2	283
Knapp, R. W., see Steeples, D. W.	2	295
Knapp, R. W., Observations of the air-coupled wave as a function of depth (Short Note)	9	1853
Koenig, M., see Köhler, K.	10	1923
Köhler, K., Reconstruction of reflecting structures from vertical seismic profiles with a moving source	10	1923
Korringa, J., see LaTorraca, G. A.	9	1819
Kosloff, D., see Reshef, M.	2	324
Krail, P. M., Water-gun cavity collapse in a compressible liquid	12	2200
Kravis, S., see McFadden, P.	10	1879
K-T scattering formulation of the absorptive acoustic wave equation: Wrap-around and edge effect elimination, B. Compani-Tabrizi	12	2185
Kuo, J. T., see Dai, T-F.	4	1006
Kurkjian, A. L., Acoustic multipole sources in fluid-filled boreholes	1	148
Kurkjian, A. L., Theoretical far-field radiation from a low frequency horizontal acoustic point force in a vertical borehole	4	930
Lakanen, E., Scalar-audiomagnetotellurics applied to base-metal exploration in Finland	8	1628
Lam, H. L., An investigation of the potential for geothermal energy recovery in the Calgary area in southern Alberta, Canada, using petroleum exploration data	8	1661
Lancaster, W. J., see Frohlich, B.	7	1414
Lange, J., see Almoghrabi, H.	3	699
Lankston, M. M., see Lankston, R. W.	1	45
Lankston, R. W., Obtaining multilayer reciprocal times through phantoming	1	45
LaTorraca, G. A., An analysis of the magneto-telluric impedance for three-dimensional conductivity structures	9	1819
Law, L. K., see Wolfgram, P. A.	9	1808
Layers and bright spots, H. Almoghrabi and J. Lange	3	699
Least-squares smooth fitting for irregularly spaced data: Finite element approach using cubic B-spline basis, H. Inoue	11	2051
Lee, M. W., Low-frequency radiation from point sources in a fluid-filled borehole	9	1801
Lee, T-C., A simple method for the absolute measurement of thermal conductivity of drill cuttings	8	1580
Lerche, I., see Hill, N. R.	11	2160
Lerche, I., Stratigraphic filter theory: Combined effects of parallel bedding and random inhomogeneities	8	1531
Letters to the Editor		
V. L. S. Bhimasankaram	6	1310
Samuel Gordon	8	1530
E. S. Sodbinow	12	2259
Levin, F. K., When reflection coefficients are zero	3	736
Li, Z., Wave-field extrapolation by the linearly transformed wave equation	8	1538
Linearized inversion of multioffset seismic reflection data in the ω-k domain, L. T. Ikelie, J. P. Diet, and A. Tarantola	6	1266
Lines, L. R., see Gersztenkorn, A.	2	357
Lines, L. R., see Whitmore, N. D.	5	1087
Lloyd, T. A., see Mikesell, J. L.	12	2219
Lo, T-W., Experimental determination of elastic anisotropy of Berea sandstone, Chicopee shale, and Chelmsford granite	1	164
Low-frequency radiation from point sources in a fluid-filled borehole, M. W. Lee	9	1801
Lucas, D., see Yilmaz, O.	7	1355
Luo, Y., see Xiong, Z.	12	2235
Luyendyk, B. P., see Kieniewicz, P. M.	5	1127
Ma, Y., Acoustic response of manganese nodule deposits	3	689
Madden, T. R., see LaTorraca, G. A.	9	1819
Magnetic prospection on prehistoric sites in Western Canada, T. H. Gibson	3	553
Magnetic susceptibility anomalies of lithosphere beneath eastern Europe and the Middle East, J. Arkani-Hamed and D. W. Strangway	9	1711
Magnuson, A. H., see Ma, Y.	3	689
MAGSAT scalar anomaly map of South America, J. R. Ridgway and W. J. Hinze	7	1472
Mahrer, K. D., An empirical study of instability		

	Issue	Page
and improvement of absorbing boundary conditions for the elastic wave equation (Short Note)	7	1499
Majorowicz, J. A., Geothermics of the Williston Basin in Canada in relation to hydrodynamics and hydrocarbon occurrences	3	767
Manning, M. J., Dielectric properties of pyrite samples at 1 100 MHz	1	172
Map displays from an interactive interpretation (Short Note), J. I. Denham and H. R. Nelson, Jr.	10	1999
Mason, I. M., see Cox, K. B.	12	2225
Matias, M. J. S., The effect of structure and anisotropy on resistivity measurements	4	964
Maximum entropy analysis of dispersed seismic waveforms, K. B. Cox and I. M. Mason	12	2225
Maximum-likelihood deconvolution: An optimization theory perspective, J. Goutsias and J. M. Mendel	6	1206
May, B. T., see Hron, F.	3	710
Mayer, J. R., Signal penetration in the COCORP Basin and Range-Colorado plateau survey	5	1050
McAulay, A. D., Plane-layer prestack inversion in the presence of surface reverberation	9	1789
McCann, D. M., Application of cross-hole seismic measurements in site investigation surveys	4	914
McCowan, D. W., see Brysk, H.	7	1370
McCracken, K. G., A comparison of electromagnetic exploration systems	3	810
McCracken, K. G., The minimization of noise in electromagnetic exploration systems	3	819
McCracken, K. G., see Buselli, G.	4	957
McElwee, C. D., see Steeples, D. W.	2	295
McFadden, P., The Nth-root stack: Theory, applications and examples	10	1879
McLamore, V. R., see Kilty, K. T.	2	266
McMechan, G., On the effect of recording aperture in migration of VSP data (Short Note)	10	2007
McMechan, G. A., see Chang, W. F.	1	67
Meadows, M., Exact inversion of plane-layered isotropic and anisotropic elastic media by the state-space approach	11	2031
Memorials		
Edgar S. Driver, by Robert V. Brodine	6	1336
R. Jeffrey Lytle, by Edwin F. Laine	1	212
Burl Arthur Tuller, by Norman Domenico	8	1706
Mendel, J. M., see Goutsias, J.	6	1206
Merritt, C. T., see Mikesell, J. L.	12	2219
Migration of common shot gathers, M. Reshef and D. Kosloff	2	324
Mikesell, J. L., Borehole field calibration and measurement of low-concentration manganese by decay gamma rays	12	2219
Miller, R. D., Field comparison of shallow seismic sources	11	2067
Minimization of noise in electromagnetic exploration systems, K. G. McCracken, M. O. Oristaglio, and G. W. Hohmann	3	819
Mitchell, J. F., Structural interpretation using refraction velocities from marine seismic surveys	1	12
Mohan, N. L., Gravity interpretation using the Mellin transform	1	114
Moon, W., Radon transform wave field separation for vertical seismic profiling data	4	940
Moore, G. C., see Indelicato, G. J.	3	673
Morgan, D., see Han, D.-H.	11	2093
Morsi, M. H., A simplified fast method of deriving weathering corrections (Short Note)	8	1689
Multichannel estimate of the seismic wavelet (Short Note), J. E. Thomas	3	838
Multicomponent seismic studies using complex trace analysis, R. M. René, J. L. Fitter, P. M. Forsyth, K. Y. Kim, D. J. Murray, J. K. Walters, and J. D. Westerman	6	1235
Murphy, W. F. III, Acoustic relaxation in sedimentary rocks: Dependence on grain contacts and fluid saturation	3	757
Murray, D. J., see René, R. M.	6	1235
Murthy, A. Srikrishna, see Rao, T. K. S. Prakasa	11	2156
Nedlin, G., The special features of *P-S* arrivals	2	347
Nedlin, G., *t-x* reflection curves for arbitrary 3-D media in terms of geometry of a reflector and a near-reflector wavefront	10	1912
Neff, D. B., Noise suppression by the radial amplitude-slope rejection method (Short Note)	3	844
Nelson, H. R., Jr., see Denham, J. I.	10	1999
Nelson, J. B., An alternate derivation of the three-dimensional Hilbert transform relations from first principles (Short Note)	4	1014
Neville, M. J., see Hatherly, P. J.	2	255
New formulation of dip and depth to a dipping reflector beneath $V = V_0(1 + KZ)$, T. Kayiran	2	353
Newman, B. J., Deconvolution of noisy seismic data — A method for prestack wavelet extraction	1	34
Newman, G. A., see Gunderson, B. M.	11	2117
Newman, G. A., Transient electromagnetic response of a three-dimensional body in a layered earth	8	1608
New prospects in shallow depth electrical surveying for archaeological and pedological applications, A. Hesse, A. Jolivet, and A. Tabbagh	3	585
New publications received	1	210
	2	514
	3	856
	4	1026
	5	1159
	6	1314
	8	1704
	11	2167
	12	2262
New SEG publications	2	516
	3	856
	4	1026
	10	2028
	11	2174

	Issue	Page
New shipboard three-component magnetometer, N. Isezaki	10	1992
Next month in GEOPHYSICS	1	211
	2	521
	3	879
	4	1032
	5	1174
	6	1335
	8	1709
	9	1877
	10	2025
	11	2175
	12	2270
Nicoletis, S., see Goldman, Y.	7	1450
Niwas, S., Computation of apparent resistivities using an exponential approximation of kernel functions	8	1594
Noise suppression by the radial amplitude-slope rejection method (Short Note), D. B. Neff and S. B. Wyatt	3	844
Nomogram for the direct interpretation of magnetic anomalies due to long horizontal cylinders (Short Note), T. K. S. Prakasa Rao, M. Subrahmanyam, and A. Srikrishna Murthy	11	2156
Noponen, I., Attenuation of water-borne coherent noise by application of hyperbolic velocity filtering during the tau-p transform	1	20
Norris, R. A., see Kilty, K. T.	2	266
Novel ground electromagnetic system, I. M. Johnson and Z. B. Doborzynski	2	396
Nth-root stack: Theory, applications and examples, P. McFadden, B. Drummond, and S. Kravis	10	1879
Numerical investigation of head waves and leaky modes in fluid-filled boreholes, F. L. Paillet and C. H. Cheng	7	1438
Nur, A., see Han, D.-H.	11	2093
Objective real-time data-adaptive technique for efficient model resolution improvement in magnetotelluric studies, A. G. Jones and J. H. Foster	1	90
Observations of the air-coupled wave as a function of depth (Short Note), R. W. Knapp	9	1853
Observations of wave velocity and attenuation in two-phase media, G. W. Purnell	12	2193
Obtaining multilayer reciprocal times through phantoming, R. W. Lankston and M. M. Lankston	1	45
Oldenburg, D. W., see Whittall, K. P.	2	383
Oristaglio, M. L., see Devaney, A. J.	2	419
Oristaglio, M. L., see McCracken, K. G.	3	810
Oristaglio, M. L., see McCracken, K. G.	3	819
Owen, T. E., see Parra, J. O.	3	788
Özdemir, H., Design and applications of optimum multichannel linear moveout filters	6	1221
Paillet, F. L., A numerical investigation of head waves and leaky modes in fluid-filled boreholes	7	1438
Paine, J. W., A comparison of methods for approximating the vertical gradient of one-dimensional magnetic field data	9	1725
Pankratz, L. W., see Ackermann, H. D.	2	223
Papers from other journals	1	203
	2	520
	3	878
	5	1174
	6	1333
	7	1523
	8	1705
	9	1872
	10	2026
Parra, J. O., Hole-to-hole resistivity signatures of cylindrical cavities: Dipole-dipole electrode array	3	788
Pattantyus-A., M., Geophysical results in archaeology in Hungary	3	561
Peddie, N. W., International Geomagnetic Reference Field Revision 1985 (Report), IAGA Division I, Working Group I	4	1020
Phadke, S., see Chiu, S. K. L.	8	1559
Phase offset indicator (POI): A study of phase shift versus offset and fluid content, B. Rafipour and E. Herrin	3	679
Pilkington, M., Determination of crustal interface topography from potential fields	6	1277
Pilkington, M., Inversion of aeromagnetic data for multilayered crustal models (Short Note)	12	2250
Plane-layer prestack inversion in the presence of surface reverberation, A. D. McAulay	9	1789
Plane-wave decomposition for elastic wave fields applied to the separation of P-waves and S-waves in vector seismic data (Short Note), A. J. Devaney and M. L. Oristaglio	2	419
Polymetallic sulfide exploration on the deep sea floor: The feasibility of the Mini-Moses technique, P. A. Wolfgram, R. N. Edwards, L. K. Law, and M. N. Bone	9	1808
Pore fluids and frequency-dependent wave propagation in rocks, T. D. Jones	10	1939
Pratt, T. L., see Belcher, S. W.	9	1736
Prestack layer replacement, O. Yilmaz and D. Lucas	7	1355
Prompt neutron-gamma logging for coal ash in water-filled boreholes, J. Charbucinski, S. F. Youl, P. L. Eisler, and M. Borsaru	5	1110
P-SV wave propagation in heterogeneous media: Velocity-stress finite-difference method, J. Virieux	4	889
Pullan, S. E., see Miller, R. D.	11	2067
Purnell, G. W., Observations of wave velocity and attenuation in two-phase media	12	2193
Radon transform wave field separation for vertical seismic profiling data, W. Moon, A. Carswell, R. Tang, and C. Dilliston	4	940
Rafipour, B., Phase offset indicator (POI): A		

	Issue	Page
study of phase shift versus offset and fluid content	3	679
Ram Babu, H. V., A simple method for the analysis of magnetic anomalies over dike-like bodies	5	1119
Rao, S. V. Seshagiri, see Mohan, N. L.	1	114
Rao, T. K. S. Prakasa, Nomogram for the direct interpretation of magnetic anomalies due to long horizontal cylinders (Short Note)	11	2156
Real data results of Kirchhoff elastic wave migration (Short Note), T-T. Dai and J. T. Kuo	4	1006
Reconstruction of reflecting structures from vertical seismic profiles with a moving source, K. Köhler and M. Koenig	10	1923
Recursive method for the separation of upgoing and downgoing waves of vertical seismic profiling data, F. Aminzadeh	12	2206
Reduction to the pole as an inverse problem and its application to low altitude anomalies, J. B. C. Silva	2	369
Reflection coefficients at pore-fluid contacts as a function of offset (Short Note), J. Wright	9	1858
René, R. M., Gravity inversion using open, reject, and "shape-of-anomaly" fill criteria	4	988
René, R. M., Multicomponent seismic studies using complex trace analysis	6	1235
Reports		
International Geomagnetic Reference Field Revision 1985, IAGA Division I, Working Group I, Norman W. Peddie, Chairman	4	1020
COCORP: N. California-Nevada area and Southern Appalachian area, Part III, S. Kaufman	11	2162
Reshef, M., Migration of common shot gathers	2	324
Resolution of ambiguities of seismic refraction traveltime curves, H. D. Ackermann, L. W. Pankratz, and D. Dansereau	2	223
Reverse-time migration of offset vertical seismic profiling data using the excitation-time imaging condition, W. F. Chang and G. A. McMechan	1	67
Reviewers for GEOPHYSICS, 1985	3	851
Reviews		
The Alaskan Beaufort Sea: Ecosystems and Environments, P. W. Barnes, D. M. Schell, and E. Reimnitz, Editors. Review by William R. Green	6	1312
Applied Environmental Geochemistry, Iain Thornton. Review by William R. Green	2	511
Aspects of a Stratigraphic System. The Devonian, D. L. Dineley. Review by L. A. Dunne	12	2261
Biography of a Planet: Geology, Astronomy, and the Evolution of Life on Earth, Chet Rayno. Review by William R. Green	12	2262
Brines and Evaporites, Peter Sonnenfeld. Review by B. M. Abbott	11	2165
Cased-Hole Log Analysis and Reservoir Performance Monitoring, Richard M. Bateman. Review by Hamilton M. Johnson	8	1694
Catastrophes in the Earth's History, I. A. Rezanov. Review by Jean Claude Mareschal	7	1509
Designing Optimal Strategies for Mineral Exploration, J. G. De Geoffroy and T. K. Wignall. Review by William R. Green	9	1862
Digital Filtering: Applications in Geophysical Exploration, Attila Mesko. Review by W. G. Agocs	2	510
Earth, 4th Edition, Frank Press and Raymond Siever. Review by Hamilton M. Johnson	10	2020
The Elements of Graphing Data, William S. Cleveland. Review by William R. Green	10	2021
Elements of Petroleum Geology, Richard C. Selley. Review by B. M. Abbott	3	854
Encyclopedia of Well Logging, Robert Desbrandes. Review by Hamilton M. Johnson	7	1509
Fragmentation by Blasting, W. L. Fourney. Review by Paul N. Worsey	1	198
Geodetic Refraction, F. K. Brunner, Editor. Review by William R. Green	1	198
Geodetic Surveying, A. V. Maslov, A. V. Gordeev, and Yu. G. Batrakov. Review by William R. Green	1	198
Geology in Petroleum Production, A. J. Dikkers, Review by B. M. Abbott	9	1864
Geomorphology, R. J. Chorley, S. D. Schumm, and D. E. Sugden. Review by William R. Green	5	1158
Geophysics of the Polar Regions, E. S. Husebye, G. L. Johnson, and Y. Kristoffersen, Editors. Review by Peter Dehlinger	8	1693
Geophysics: The Earth's Interior, Jean Claude DeBremaecker. Review by Jean-Claude Mareschal	3	855
Geotechnical Engineering Analysis and Evaluation, Roy E. Hunt. Review by William R. Green	8	1693
Groundwater Engineering, Abdel-Aziz Ismail Kashef. Review by William R. Green	7	1527
Inductive Mining Prospecting: Part I. Theory, Alexander A. Kaufman and George V. Keller. Review by Misac N. Nabighian	5	1157
International Directory to Geophysical Research, W. O'Reilly, compiler. Review by Paul C. Wuenschel	9	1863
Intrinsic Geodesy, Antonio Marussi. Review by Jean-Claude Mareschal	11	2166
An Introduction to the Theory of Seismology, 4th Ed., K. E. Bullen, and Bruce A. Bolt. Review by Stanley J. Laster	12	2261
Lake Biwa, Shoji Horie, Editor. Review by William R. Green	8	1692
Log Quality Control, Richard M. Bateman. Review by Hamilton M. Johnson	8	1694
Lower Paleozoic of Northwestern and West Central Africa, C. H. Holland, Editor. Review by B. M. Abbott	7	1510
Magmatism at a Plate Edge: The Peruvian Andes, W. S. Pitcher, M. P. Atherton, E. J. Cobbing, and R. D. Beckinsale, Editors. Review by Jean-Claude Mareschal	4	1024
Mathematical Aspects of Seismology, 2nd Ed.,		

	Issue	Page
Markus Bath and A. J. Berkhout. Review by Ralph T. Shuey	12	2260
Mathematics for Seismic Data Processing and Interpretation, A. R. Camina and G. J. Janacek. Review by Jean-Claude Mareschal	10	2021
Mechanics of Oil Shale, Ken P. Chong and John Ward Smith, Editors. Review by Paul N. Worsey	5	1156
Mud Logging, Principles and Interpretations, EXLOG staff, Alan Whittaker, Editor. Review by Hamilton M. Johnson	9	1863
Nuclear Assaying of Mining Boreholes — An Introduction, A. W. Wylie. Review by D. T. Thompson	6	1311
Open-Hole Log Analysis and Formation Evaluation, Richard M. Bateman. Review by Hamilton M. Johnson	11	2165
Principles of Pleistocene Stratigraphy: Applied to Gulf of Mexico, N. Healy-Williams, Editor. Review by Lorie A. Dunne	10	2019
Principles of Structural Geology, John Suppe. Review by Reinhard K. Frohlich	6	1312
Problems and Methods for Lithospheric Exploration I, Roberto Cassinis, Editor. Review by Jean-Claude Mareschal	2	510
Provenance of Arenites, G. G. Zuffa, Editor. Review by L. A. Dunne	3	854
Radioglaciology, V. V. Bogorodsky, C. R. Bentley, and P. E. Gudmandsen. Review by William R. Green	11	2164
Reefs and Banks of the Northwestern Gulf of Mexico, Richard Rezak, Thomas L. Bright, and David W. McGrail. Review by B. M. Abbott	8	1692
Remote Sensing of Ice and Snow, Dorothy K. Hall and Jaroslav Martinec. Review by William R. Green	11	2164
Role of Magnetotellurics in Geophysical Prospecting, A. Adam. Review by Charles M. Swift, Jr.	11	2164
Sandstone Depositional Models for Exploration for Fossil Fuels, G. deV. Klein. Review by L. A. Dunne	5	1156
Satellite Oceanic Remote Sensing, Barry Saltzman, Editor. Review by William R. Green	4	1024
Satellite Oceanography, I. S. Robinson. Review by William R. Green	2	511
Seismic Wave Propagation in Stratified Media, B. L. N. Kennett. Review by L. E. Alsop	1	197
Seismic Wave Propagation in the Earth, Physics and Evolution of the Earth's Interior 2, A. Hanyga, Editor. Review by Jean-Claude Mareschal	6	1313
Shallow Refraction Seismics, Bengt Sjogren. Review by Paul C. Wuenschel	4	1025
Special Functions for Engineers and Applied Mathematicians. Larry C. Andrews. Review by William R. Green	3	856
Spherical Harmonics and Tensors for Classical Field Theory, M. N. Jones. Review by Jean-Claude Mareschal	11	2166
Techniques for Image Processing and Classification in Remote Sensing, Robert A. Schowengerdt. Review by William R. Green	4	1025
Traces through Time: The History of Geophysical Exploration for Petroleum in Canada, David Finch. Review by Hamilton M. Johnson	10	2019
The Utility of Regional Gravity and Magnetic Anomaly Maps, William J. Hinze, Editor. Review by Jean-Claude Mareschal	9	1862
Velocities in Reflection Seismology, Jean-Pierre Cordier. Review by Paul C. Wuenschel	9	1863
Vertical Seismic Profiling, Part A: Principles, Bob A. Hardage. Review by Paul C. Wuenschel	11	2167
Vertical Seismic Profiling and Its Exploration Potential, E. I. Galperin. Review by Paul C. Wuenschel	12	2260
Well Logging for Physical Properties, Joseph R. Hearst and Philip H. Nelson. Review by Hamilton M. Johnson	6	1311

	Issue	Page
Ribeiro, F. B., Stabilization of bottom hole temperature in the presence of formation fluid flows (Short Note)	2	410
Ridgway, J. R., MAGSAT scalar anomaly map of South America	7	1472
Rijo, L., see Wannamaker, P. E.	11	2131
Rijo, L., see Zhao, J. X.	10	1978
Robust iterative inversion for the one-dimensional acoustic wave equation, A. Gersztenkorn, J. B. Bednar, and L. R. Lines	2	357
Romig, P. R., Editor, Introduction to Special issue on Engineering and groundwater	2	221
Rothman, D. H., Automatic estimation of very large residual statics	2	332
Safar, M. H., A simple method for determining the S80 water gun depth (Short Note)	2	424
Scalar-audiomagnetotellurics applied to base-metal exploration in Finland, E. Lakanen	8	1628
Scatter of magnetic directions in archaeomagnetic studies, D. H. Tarling, N. B. Hammo, and W. S. Downey	3	634
Scheer, E., see Bowin, C.	1	123
Scherer, H. U., see Ernston, K.	10	1967
Schoenberg, M., Fluid and solid motion in the neighborhood of a fluid-filled borehole due to the passage of a low-frequency elastic plane wave	6	1191
Scollar, I., Display of archaeological magnetic data	3	623
SEG 1985 Workshops (Special Report)	10	2013
Segeth, K., see Scollar, I.	3	623
Seismic attenuation spectra in rock mass characterization: A case study in open pit mining, R. P. Young and J. J. Hill	2	302
Seismic mis-tie adjustment procedure (SMAP) using a minimax-minisum strategy, G. J. Indeli-		

	Issue	Page
cato and G. C. Moore	3	673
Seismic reflection investigations of sinkholes beneath Interstate Highway 70 in Kansas, D. W. Steeples, R. W. Knapp, and C. D. McElwee	2	295
Seismic reflection profiling studies of a buried Precambrian rift beneath the Wabash Valley fault zone, J. L. Sexton, L. W. Braile, W. J. Hinze, and M. J. Campbell	3	640
Seismic refraction at Horse Mesa Dam: An application of the generalized reciprocal method, K. T. Kilty, R. A. Norris, V. R. McLamore, K. P. Hennon, and K. Euge	2	266
Self-potential variations with time and their relation to hydrogeological and meteorological parameters, K. Ernston and H. U. Scherer	10	1967
Selman, C. H., see Specht, R. N.	5	1039
Senftle, F. W., see Mikesell, J. L.	12	2219
Sexton, J. L., Evidence of recurrent faulting in the New Madrid seismic zone from Mini-Sosie high-resolution reflection data	9	1760
Sexton, J. L., Seismic reflection profiling studies of a buried Precambrian rift beneath the Wabash Valley fault zone	3	640
Shallow seismic reflection investigations of coal in the Sydney Basin, S. A. Greenhalgh, W. Suprajitno, and D. W. King	7	1426
Shear velocity logging in slow formations using the Stoneley wave, J. L. Stevens and S. M. Day	1	137
Shen, L. C., see Hardman, R. H.	3	800
Sheng, Y., A single apparent resistivity expression for long-offset transient electromagnetics	6	1291
Short Notes		
Acoustic reflections from undulating surfaces, N. R. Hill and I. Lerche	11	2160
Alternate derivation of the three-dimensional Hilbert transform relations from first principles, J. B. Nelson	4	1014
Apparent axial properties of transversely isotropic media, B. S. Byun and S-C. W. Cheng	4	1012
Approximating edges of source bodies from magnetic or gravity anomalies, R. J. Blakely and R. W. Simpson	7	1494
Convergence of iterative gravity inversion, H. Granser	5	1146
Efficient traveltime calculations for Kirchhoff migration, S. H. Gray	8	1685
Empirical study of instability and improvement of absorbing boundary conditions for the elastic wave equation, K. D. Mahrer	7	1499
Errors in depth computation, R. F. Stöckli	2	414
Fourier transform of $1/r$, M. Craig	2	417
Inversion of aeromagnetic data for multilayered crustal models, M. Pilkington and D. J. Crossley	12	2250
Map displays from an interactive interpretation, J. I. Denham and H. R. Nelson, Jr.	10	1999
Multichannel estimate of the seismic wavelet, J. E. Thomas	3	838
Noise suppression by the radial amplitude-slope rejection method (Short Note), D. B. Neff and S. B. Wyatt	3	844
Nomogram for the direct interpretation of magnetic anomalies due to long horizontal cylinders, T. K. S. Prakasa Rao, M. Subrahmanyam, and A. Srikrishna Murthy	11	2156
Observations of the air-coupled wave as a function of depth, R. W. Knapp	9	1853
On the effect of recording aperture in migration of VSP data, G. McMechan and L.-Z Hu	10	2007
Plane-wave decomposition for elastic wave fields applied to the separation of *P*-waves and *S*-waves in vector seismic data, A. J. Devaney and M. L. Oristaglio	2	419
Real data results of Kirchhoff elastic wave migration, T-T. Dai and J. T. Kuo	4	1006
Reflection coefficients at pore-fluid contacts as a function of offset, J. Wright	9	1858
Simple method for determining the S80 water gun depth, M. H. Safar	2	424
A simplified fast method of deriving weathering corrections, M. H. Morsi	8	1689
Stable free-surface boundary condition for two-dimensional elastic finite-difference wave simulation, J. E. Vidale and R. W. Clayton	12	2247
Stabilization of bottom hole temperature in the presence of formation fluid flows, F. B. Ribeiro and V. M. Hamza	2	410
Time-domain solution for horizontal coaxial dipoles on a half-space, D. C. Bartel	9	1850
Velocity analysis for feathered marine data, A. K. Kalra	1	190
Signal penetration in the COCORP Basin and Range-Colorado plateau survey, J. R. Mayer and L. D. Brown	5	1050
Silva, J. B. C., Reduction to the pole as an inverse problem and its application to low altitude anomalies	2	369
Simple method for determining the S80 water gun depth (Short Note), M. H. Safar	2	424
Simple method for the absolute measurement of thermal conductivity of drill cuttings, T-C. Lee, T. L. Henyey, and B. N. Damiata	8	1580
Simple method for the analysis of magnetic anomalies over dike-like bodies, H. V. Ram Babu, V. Vijayakumar, and D. Atchuta Rao	5	1119
Simplified fast method of deriving weathering corrections (Short Note), M. H. Morsi	8	1689
Simpson, R. W., see Blakely, R. J.	7	1494
Simultaneous pre-normal moveout and post-normal moveout deconvolution, J. F. Claerbout	7	1341
Single apparent resistivity expression for long-offset transient electromagnetics, Y. Sheng	6	1291
Slant-stack procedure for point-source data, H. Brysk and D. W. McCowan	7	1370
Smith, D. L., Application of the pole-dipole resistivity technique to the detection of solution cavities beneath highways	3	833
Smith, W., see Scheer, E.	1	123
Spatial and temporal analysis of electromagnetic survey data, N. R. Garg and G. V. Keller	1	85

	Issue	Page
Specht, R. N., Geophysical case history, Prudhoe Bay field	5	1039
Special features of *P-S* arrivals, G. Nedlin	2	347
Special Issues:		
Engineering and groundwater, P. R. Romig, Editor	2	221
Geophysics in Archaeology, J. C. Wynn, Editor	3	533
Special Report		
1985 SEG Workshops	10	2013
Spies, B. R., The use and misuse of apparent resistivity in electromagnetic methods	7	1462
Spitz, S., see Goldman, Y.	7	1450
Stabilization of bottom hole temperature in the presence of formation fluid flows (Short Note), F. B. Ribeiro and V. M. Hamza	2	410
Stable free-surface boundary condition for two-dimensional elastic finite-difference wave simulation (Short Note), J. E. Vidale and R. W. Clayton	12	2247
Steeples, D. W., see Knapp, R. W.	2	276
Steeples, D. W., see Knapp, R. W.	2	283
Steeples, D. W., Seismic reflection investigations of sinkholes beneath Interstate Highway 70 in Kansas	2	295
Stesky, R. M., Electrical conductivity of brine-saturated fractured rock	8	1585
Stevens, J. L., Shear velocity logging in slow formations using the Stoneley wave	1	137
Stewart, M. T., see Fitterman, D. V.	4	995
Stöckli, R. F., Errors in depth computation (Short Note)	2	414
Stodt, J. A., see Wannamaker, P. E.	11	2131
Strangway, D. W., see Arkani-Hamed J.	9	1711
Strategy for nonlinear elastic inversion of seismic reflection data, A. Tarantola	10	1893
Stratigraphic filter theory: Combined effects of parallel bedding and random inhomogeneities, I. Lerche	8	1531
Stright, M. J., Evaluation of archaeological site potential on the Gulf of Mexico continental shelf using high-resolution seismic data	3	605
Structural interpretation using refraction velocities from marine seismic surveys, J. F. Mitchell and R. J. Bolander	1	12
Submarine canyons: Velocity replacement by wave-equation datuming before stack, J. R. Berryhill	8	1572
Subrahmanyam, M., see Rao, T. K. S. Prakasa	11	2156
Suprajitno, M., see Greenhalgh, S. A.	7	1426
Suprajitno, M., Theoretical vertical seismic profiling seismograms	6	1252
Synthetic full waveform acoustic logs in cased boreholes II. Poorly bonded casing, K. M. Tubman, C. H. Cheng, S. P. Cole, and M. N. Toksöz	4	902
Synthetic seismic sections for acoustic, elastic, anisotropic, and vertically inhomogeneous layered media, F. Hron, B. T. May, J. D. Covey, and P. F. Daley	3	710
Tabbagh, A., Applications and advantages of the Slingram electromagnetic method for archaeological prospecting	3	576
Tabbagh, A., see Hesse, A.	3	585
Tang, R., see Moon, W.	4	940
Tanner, A. B., see Mikesell, J. L.	12	2219
Tarantola, A., A strategy for nonlinear elastic inversion of seismic reflection data	10	1893
Tarantola, A., see Gauthier, O.	7	1387
Tarantola, A., see Ikelle, L. T.	6	1266
Tarling, D. H., The scatter of magnetic directions in archaeomagnetic studies	3	634
Theoretical far-field radiation from a low frequency horizontal acoustic point force in a vertical borehole, A. L. Kurkjian	4	930
Theoretical modeling of induced-polarization logging in a borehole, R. Freedman and J. P. Vogiatzis	9	1830
Theoretical vertical seismic profiling seismograms, M. Suprajitno and S. A. Greenhalgh	6	1252
Theory of induction sonde in dipping beds, R. H. Hardman and L. C. Shen	3	800
Thomas, J. E., Multichannel estimate of the seismic wavelet (Short Note)	3	838
Thomsen, L., Weak elastic anisotropy	10	1954
Thorburn, M., see Buselli, G.	4	957
Three-dimensional Born inversion with an arbitrary reference, J. K. Cohen, F. G. Hagin, and N. Bleistein	8	1552
Three-dimensional determination of structure and velocity by seismic tomography, S. K. L. Chiu, E. R. Kanasewich, and S. Phadke	8	1559
Three-dimensional mise-à-la-masse modeling applied to mapping fracture zones, C. W. Beasley and S. H. Ward	1	98
Three-dimensional transient electromagnetic responses for a grounded source, B. M. Gunderson, G. A. Newman, and G. W. Hohmann	11	2117
Time-domain solution for horizontal coaxial dipoles on a half-space (Short Note), D. C. Bartel	9	1850
Toksöz, M. N., see Lo, T. W.	1	164
Toksöz, M. N., see Tubman, K. M.	4	902
Transient electric dipole-dipole method for mapping the conductivity of the sea floor, R. N. Edwards and A. D. Chave	4	984
Transient electromagnetic response of the Teutonic Bore orebody, G. Buselli, K. G. McCracken, and M. Thorburn	4	957
Transient electromagnetic response of a three-dimensional body in a layered earth, G. A. Newman, G. W. Hohmann, and W. O. Anderson	8	1608
Transient electromagnetic sounding for groundwater, D. V. Fitterman and M. T. Stewart	4	995
Transition zone reflections and permafrost analysis, J. H. Justice and C. Zuba	5	1075
Traveltime inversion for the flat-later model, J. H. Justice	10	1904
Tubman, K. M., Synthetic full waveform acoustic logs in cased boreholes II. Poorly bonded casing	4	902

	Issue	Page
Two-dimensional nonlinear inversion of seismic waveforms: Numerical results, O. Gauthier, J. Virieux, and A. Tarantola	7	1387
Two-dimensional topographic responses in magnetotellurics modeled using finite elements, P. E. Wannamaker, J. A. Stodt, and L. Rijo	11	2131
t-x reflection curves for arbitrary 3-D media in terms of geometry of a reflector and a near-reflector wavefront, G. Nedlin	10	1912
Uniform norm minimization in three dimensions, S. P. Huestis	5	1141
Ursin, B., Zero-offset reflections from a curved interface	1	50
Use and misuse of apparent resistivity in electromagnetic methods, B. R. Spies and D. E. Eggers	7	1462
Using multiparameter Born theory to obtain certain exact multiparameter inversion goals, A. B. Weglein, P. B. Violette, and T. H. Keho	5	1069
Varadan, V. V., see Ma, Y.	3	689
Vaughan, C. J., Ground-penetrating radar surveys used in archaeological investigations	3	595
Velocity analysis for feathered marine data (Short Note), A. K. Kalra	1	190
Vertical seismic profiling depth migration of a salt dome flank, N. D. Whitmore and L. R. Lines	5	1087
Vidale, J. E., A stable free-surface boundary condition for two-dimensional elastic finite-difference wave simulation (Short Note)	12	2247
Vijayakumar, V., see Ram Babu, H. V.	5	1119
Violette, P. B., see Weglein, A. B.	5	1069
Virieux, J., *P-SV* wave propagation in heterogeneous media: Velocity stress finite-difference method	4	889
Virieux, J., see Gauthier, O.	7	1387
Vogiatzis, J. P., see Freedman, R.	9	1830
Waldner, J. S., see Miller, R. D.	11	2067
Walters, J. K., see René, R. M.	6	1235
Wang, H. F., see Green, D. H.	4	948
Wang, S., see Xiong, Z.	12	2235
Wannamaker, P. E., Two-dimensional topographic responses in magnetotellurics modeled using finite elements	11	2131
Ward, S. H., see Beasley, C. W.	1	98
Ward, S. H., see Zhao, J. X.	10	1978
Water-gun cavity collapse in a compressible liquid, P. M. Krail	12	2200
Watts, A. B., see Bell, R. E.	7	1480
Wave-field extrapolation by the linearly transformed wave equation, Z. Li	8	1538
Wave propagation from an explosive source, F. Jalinoos and J. E. White	3	746
Weak elastic anisotropy, L. Thomsen	10	1954
Weglein, A. B., Using multiparameter Born theory to obtain certain exact multiparameter inversion goals	5	1069
Weidner, B., see Scollar, I.	3	623
Westerman, J. D., see René, R. M.	6	1235
Weymouth, J. W., Archaeological site surveying program at the University of Nebraska	3	538
When reflection coefficients are zero, F. K. Levin	3	736
White, J. E., Biot-Gardner theory of extensional waves in porous rods	3	742
White, J. E., see Jalinoos, F.	3	746
Whitmore, N. D., Vertical seismic profiling depth migration of a salt dome flank	5	1087
Whittall, K. P., Inversion of magnetotelluric data using localized conductivity constraints	8	1603
Whittall, K. P., Inversion of magnetotelluric data using a practical inverse scattering formulation	2	383
Winkler, K. W., Estimates of velocity dispersion between seismic and ultrasonic frequencies	1	183
Winkler, K. W., see Murphy, W. F. III	3	757
Winterstein, D. F., Anisotropy effects in *P*-wave and *SH*-wave stacking velocities contain information in lithology	3	661
Wolfgram, P. A., Polymetallic sulfide exploration on the deep sea floor: The feasibility of the Mini-Moses technique	9	1808
Wright, J., Reflection coefficients at pore-fluid contacts as a function of offset (Short Note)	9	1858
Wu, G., see Xiong, Z.	12	2235
Wyatt, S. B., see Neff, D. B.	3	844
Wynn, J. C., Editor, Archaeological prospection: An introduction to the Special Issue	3	533
Xiong, Z., Induced-polarization and electromagnetic modeling of a three-dimensional body buried in a two-layered anisotropic earth	12	2235
Yilmaz, O., Prestack layer replacement	7	1355
Youl, S. F., see Charbucinski, J.	5	1110
Young, C. T., Archaeological applications of resistivity and magnetic methods at Fort Wilkins State Park, Michigan	3	568
Young, R. P., Seismic attenuation spectra in rock mass characterization: A case study in open pit mining	2	302
Zero-offset reflections from a curved interface, B. Ursin	1	50
Zhao, J. X., Effects of geologic noise on cross-borehole electrical surveys	10	1978
Zimmerman, R. W., The effect of the extent of freezing on seismic velocities in unconsolidated permafrost	6	1285
Zuba, C., see Justice, J. H.	5	1075